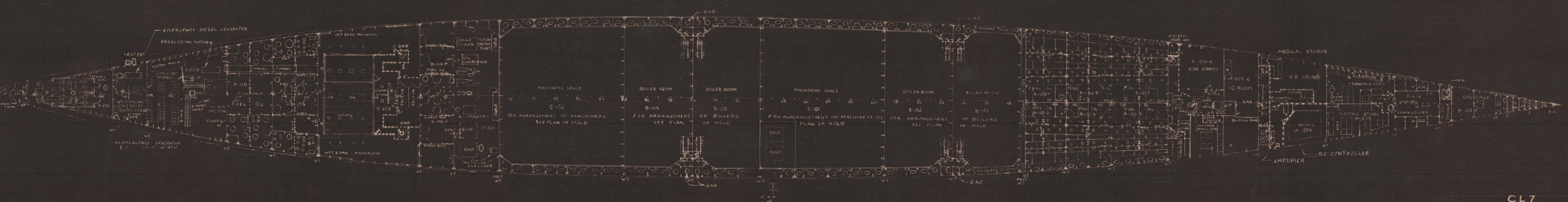


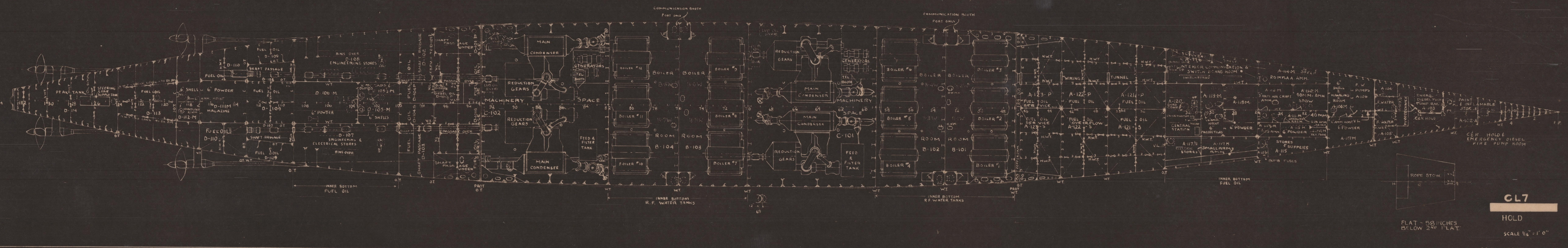
CL7

SECOND PLATFORM DECK

SCALE 1/16" = 1'0"

C&R 102847

10.



FLAT - 58 INCHES BELOW 2ND FLAT

CL7

HOLD

SCALE 1/16" = 1'0"

C&R 102847

2.

U.S SCOUT CRUISER NO 7
GENERAL INFORMATION

LENGTH BET. PERPENDICULARS (F.P. TO STA 40)	550'0"
LENGTH OVERALL	555'6"
LENGTH ON D.W.L.	550'0"
PROTECTION FORD. OF FIRST PERPENDICULAR	5'6"
BREADTH MOLDED EXTREME	54'10"
BREADTH EXTREME TO OUTSIDE OF ARMOR	55'4"
DEPTH MOLDED AT SIDE TO UPPER DK AMIDSHIPS	34'0 1/4"
DEPTH MOLDED AT CENTER TO UPPER DECK	34'11 1/4"
DRAFT DESIGNERS W.L. TO BOTTOM OF KEEL	13'-6"
BOTTOM OF KEEL TO MOLDED BASELINE	1 3/8"
MEAN DISPLACEMENT TO D.W.L. IN TONS	7,100 T.
RATIO LENGTH TO BEAM	10
DISPLACEMENT TONS PER INCH AT 13'-6" DRAFT	50.6 T.
AREA MIDSHIP SECTION TO D.W.L. 13'-4" IN SQ.FT.	705
AREA D.W.L. PLANE	21260 SQ.FT.
AREA WETTED SURFACE TO 13'6" W.L.	33800 SQ.FT.
C.B. FORD. FR. 69	.77 FT.
C.G. OF D.W.L. PLANE F'WD. FR. 69. (WHICH IS 12" AFT OF M.D)	11.3 FT.
TRANS. METACENTRE ABOVE C.B. 16'-1" LONG'L METACENTRE ABOVE C.B.	1340 FT.
COEFFICIENT OF FINENESS BLOCK	.606
" " " MIDSHIP SECTION	.944
" " " D.W.L.	.691
" " " PRISMATIC	.630
RUDDER AXIS FOR'D OF A.P.	16'0"
NO. OF FRAMES, SPACING 4'0" (FR. 136-6'0" FOR'D OF A.P.)	136
NO. OF W.T. COMPARTMENTS	
INB'D SHAFT STRUTS FOR'D A.P.	34'5 3/16"
OUTB'D " " "	82'5 5/16"
INB'D SHAFTS INCLINE DOWN & AFT P&S	2°0'44"
OUTB'D " " " "	0°50'18"
INB'D " DIVERGE FROM ℄ OF SHIP P&S	0°51'22"
OUTB'D " " " " "	1°18'28"
℄ OF INB'D. SHAFT FROM ℄ OF SHIP AT FR 93	8'3 3/32"
℄ " " " " " " 130½	10'6"
℄ " OUTB'D " " " " 70	17'3"
℄ " " " " " " 118½	21'1 7/16"

℄ OF INB'D SHAFT ABOVE MOLDED B.L. AT FR. 93	8'8 1/4"
℄ " " " " " " 130½	3'5"
℄ OF OUTB'D " " " " " 70	6'2"
℄ " " " " " " 118½	3'4"
PROPELLERS 4-3 BLADED DIA.	11'3"
" PITCH	11'10"
" EXPANDED AREA IN SQ.FT.	68.8
" PROJECTED " " "	60.1
" ℄ FOR'D OF A.P. INB'D.	27'11 3/4"
" ℄ " " " OUTB'D.	76'7 5/8"

HEIGHTS ABOVE D.W.L 13'-6"

FOREMAST TOP OF TRUCK LIGHT	107'2"
MAST MAIN " " " "	93'8"
MAST HEAD LIGHT	71'0"
RANGE LIGHT	58'8"
FOR'D. SEARCHLIGHT PLAT.	73'9"
AFTER " "	46'0 3/4"
SPOTTERS & FIRE CONTROL PLAT	87'9 9/16"
NAV. BRIDGE AT ℄ FR 33	50'3"
UPPER " " " "	39'7 7/8"
LOWER " " " " "	34'11 3/8"
TOP OF MAIN PLATING AT STERN	12'5½"
FOUR FUNNELS AVERAGE ABT.	67'3"
℄ OF #3 & #4 GUNS	19'2 7/8"
℄ " #5 & #6 GUNS	35'6"
℄ " #7 & #8 "	33'11"
℄ " #9 & #10 "	26'8"
℄ " #11 & #12 "	43'5"
3" A.A. GUN 24" AFT FR 65 P&S	27'0"
3" " " 22" FWD FR 72 P&S	27'2"
3" " " 24" AFT FR 76 P&S	27'4½"
3" " " 14" " 115 ℄	28'4"

COMPLEMENT

COMMANDING OFFICER	1
WARD ROOM OFFICERS	40
WARRANT OFFICERS	10
CHIEF PETTY OFFICERS	34
CREW (INCLUDING AVIATION UNIT)	666
TOTAL	751

GUNS & ARMAMENT

NO'S 3&4	6" GUNS ℄ TWIN MOUNT	FR 124
NO'S 5&6	" " " " "	FR 18
NO'S 7&8	" " 15'8" OFF ℄ P&S	FR 28
NO'S 9&10	" " 15'2" " " 20½" AFT FR	106
NO'S 11&12	" " 12'3½" OFF ℄ P&S	FR 28
3" AA.GUN	UPPER DK P&S 24" AFT.	FR 65
3" " "	" " " 22" FWD	FR 72
3" " "	" " " 24" AFT.	FR 76
40 MM GUN	UPPER DK ℄ 24" AFT.	FR 117
40 MM GUN	UPPER BRIDGE ℄	FR 24
40 " "	AFT. GUN PLAT ℄	FR 111
20 " "	" " " P&S	FR 107
20 " "	AFT GUN PLAT P&S	FR 104
20 " "	UPPER DK	FR 59
20 " "	UPPER BRIDGE DK " 23" FWD	FR 35
20 " "	NAV. BRIDGE " 16" AFT	FR 38
20 " "	" " " 13" FWD	FR 36
TRIPLE TORPEDO TUBES " 18" "		FR 100

LIFE BOATS & RAFTS

2-26'0" MOTOR WHALE BOAT " 22 "		44
1-25 PER.L.R. P&S UPPER DK.	24" AFT	FR 59
1-25 " " P&S LOWER BRIDGE DK.		FR 35
1-25 " " " " " "	22" AFT	FR 37
1-40 " " " UPPER DK.		FR 49
1-40 " " " " "		FR 57
1-40 " " " OVER "		FR 73
1-40 " " " " " "	15" FWD	FR 80
1-25 " " " TOP OF AFT DK HOUSE		FR 109
1-25 " " " OVER UPPER DK.	6" AFT	FR 115
1-40 " " " " " "		FR 115
1-25 PER. L.R. UPPER DK. (STB. ONLY)	24" AFT,	FR 102

TURBINES

THERE ARE FOUR PROPELLING SHAFTS AND PROPELLERS, EACH DRIVEN THRU' A REDUCTION GEAR BY ONE HIGH PRESSURE, INTERMEDIATE PRESSURE AND LOW PRESSURE HIGH SPEED CURTIS TURBINE.

ALL TURBINES	R.P.M.	2500
PROPELLERS	"	400
S.H.P. TOTAL	"	90000

BOILERS

12 YARROW EXPRESS TYPE WORKING LBS PRESSURE	265
TOTAL HEATING SURFACE SQ.FT.	90084
NO. OF OIL BURNERS (6 PER BOILER)	72
DIA. OF MAIN STEAM PIPE	9" TO 14"

" " " "	B-2-P	9810	" "	"	36.43
" " " "	B-3-S	11190	" "	"	41.37
" " " "	B-4-P	11190	" "	"	41.37
" " " "	B-5-S	13411	" "	"	49.80
" " " "	B-6-P	13411	" "	"	49.80
" " " "	B-7-S	13390	" "	"	49.72
" " " "	B-8-P	13390	" "	"	49.72

CAPACITIES OF PEAK & TRIMMING TANKS

FORE PEAK COMP'T	A-101	12409 GALS	46.21 TONS F.W.	47.53 TONS S.W.
AFTER "	D-207	3840 " GALS	14.26 "	14.67 " "
PEAK TANK "	A-102	27384 GALS	101.98 "	104.90 " "
" " "	D-114	16763 "	62.42 "	64.2 " "

95% OF CAPACITIES OF FUEL OIL TANKS

COMPT		GALS	TONS	COMPT		GALS	TONS
COMPT	A-1	7596 GALS	28.67 TONS	COMPT	A-123 (STBD)	48459 GALS	167.72 TONS
"	A-2	10406 "	3757 "	"	D-101 (P)	13980 "	48.66 "
* "	D-1	9178 "	33.13 " (SUMP TANK)	"	D-101 (S)	17690 "	63.86 "
"	A-121 (P)	57291 "	206.83 "	"	D-104 (P)	23677 "	85.98 "
"	A-121 (S)	58295 "	210.45 "	"	D-104 (S)	23677 "	85.48 "
"	A-122 (P)	49898 "	180.19 "	"	D-109	53082 "	191.63 "
"	A-122 (S)	50701 "	183.09 "	"	D-110	37556 "	135.58 "
"	A-123 (P)	45756 "	165.18 "	"	D-113	22008 "	79.45 "
"	D-305	3840 "	10.49 " (100% FULL)	*	D-101½	4248 "	13.55 " (DIESEL OIL)
				TOTAL		526750 GALS	1901.62 TONS.

* NOT FIGURED IN TOTAL.

CL7

INFORMATION SHEET

C&R 102847

1.

RESTRICTED ACCOUNTABLE

SERIAL NO— CL7-

CL7

BOOKLET OF GENERAL PLANS.

	NUMBER AND ORDER OF PLANS
1	BOOKLET COVER
2	GENERAL INFORMATION AND DATA
3	OUTBOARD PROFILE
4	INBOARD PROFILE
5	BRIDGES AND PLATFORMS
6	UPPER DECK
7	MAIN DECK
8	1ST PLATFORM
9	2ND PLATFORM
10	HOLD

CORRECTED TO SUIT SHIP

PLACE	DATE	CONSTRUCTION OFFICER
SUP. CON. U.S.N. QUINCY, MASS.	MAY 1 1923	[signature] (COPY)
DO	JULY 2 1923	H.A. Hutchins Jr. (COPY)
DO	FEB 1 1924	R.R. Schlabach (COPY)
NAVY YARD BOSTON	FEB 24 1926	G.O. Manning (COPY)
DO	JUNE 25 1927	G.O. Manning (COPY)
DO	DEC 26 1929	R.N. Rush (COPY)
DO	JUNE 29 1933	T.F. O'Brien (COPY)
NAVY YARD NORFOLK	SEPT 28 1936	D.L. Taylor for Manager (COPY)
DO.	MAY 8 1939	D.L. Taylor for Manager (COPY)
NAVY YARD, MARE ISLAND	MAR-30-1942	CORRECTED AS PER N.Y. PEARL H. MARKED BP REC'D WITH LT CL 9/S1/3 (46855-0) 11/12/41
NAVY YARD, MARE ISLAND	JULY-1-1942	APPROVED FOR MANAGER
NAVY YARD, MARE ISLAND	AUG-10-1943	CORRECTED AS PER PUGET S NY MARKED BP DATED APR-15-43 - REC'D WITH LTR CL7/S1-3 (M-17 RC) OF MAY 17 43
NAVY YARD, PUGET SOUND	JUNE 7 1944	CORRECTED TO SUIT SHIP

THIS BOOKLET TRACED FROM ORIGINAL BOOKLET MADE BY BETHLEHEM SHIPBLDG. CORP FORE RIVER PLANT, QUINCY, MASS.; PL NO. H 1382-110-30-1, FEB. 26, 1923, OF SAME BU. C&R NO. DUE TO DETERIORATION BY AGE & CORRECTIONS.

INDUSTRIAL DEPARTMENT
NAVY YARD, MARE ISLAND, CALIFORNIA.

DRAWN BY BETHLEHEM SHIPBLD'G CORP.	SCALE - 1/16" = 1 FT.
TRACED BY [signature]	DATE... OCT. 8, 1942
CHECKED BY A.J. Rose	APPROVED -
SUPERVISOR B.R. Smith	[signature] FOR MANAGER
PRIN. NAV. ARCH.	
BU. OF C&R 102847	MARE ISLAND NUMBER

CL7/S1-3 — 7/27/44

SHEET 1 OF 3 SHEETS
BU C&R 102847

PRINTS ISSUED

PLACE OF ISSUE	DATE	SERIAL NO.	TO WHOM ISSUED	
M.I.	10/8/42	1-0	BU OF SHIPS	V.D
		0-1	CH. NAV OP.	1 BP
		0-2	BU. ORD	1 "
		0-3 0-4	COMD'T NY.	2 "
		0-5 0-6	" PHILA	2 "
		0-7 0-8	" NORFOLK	2 "
		0-9 0-10	" BOSTON	2 "
		0-11 0-12	" CHARLS	2 "
		0-13 0-14	" PORTS	2 "
		0-15 0-16	" PUGETS.	2 "
		0-17 0-18	" PEARL H.	2 "
		0-19	PRES N.W.C.	1 "
		0-20	I.C BOARD	1 "
		0-21 0-30	U.S.S RALEIGH	10 "
		0-31	COM. CRU. PAC.	1 "
		0-32	COM RES PAC.	1 "
		0-33 0-34	M.I.	2 "
M.I.	3-22-43	0-35 0-38	COMD'T PUGET SD.	4 "
M.I.	12 AUG 43	2-0	BU. OF SHIPS	V.D
		0-39	C.N.O	1-BP
		0-40	BU ORD	1-" "
		0-41, 0-42	COMDT NYNYK	2-" "
		0-43, 0-44	" NYPHIL	2-" "
		0-45, 0-46	" NYNOR	2-" "
		0-47, 0-48	" NY BOST	2-" "
		0-49, 0-50	" NYCHARL'S	2-" "
		0-51, 0-52	" NY PORTS	2-" "
		0-53, 0-54	" NY PS	2-" "
		0-55, 0-56	" NY PEARL	2-" "
		0-57	NAVWARCOL	1-" "
		0-58	I.C. BOARD	1-" "
		0-59, 0-68	C.O. CL (RALEIGH)	10-" "
		0-69	COMSERVPAC (FLEET MAINT)	1-" "
		0-70	COMCRUPAC	1-" "
		0-71	COMCRUDIV 1	1-" "
		0-72, 0-73	M.I	2-" "
M.I.	8-30-43	0-74, 0-75, 0-76	H. POINT	3-" "
NY PS	JUNE 44		C.O. 7 (RALEIGH	10 B.P.
M.I.	14-July-44		BU. OF SHIPS	V.D.
			C.N.O	1 B.P.
			BU. ORD.	1 " "
			COMDT. NYNYK	2 " "
			" NY PHILA	2 " "
			" NY NOR	2 " "
			" NY BOST	2 " "
			" NY CHARLS	2 " "
			" NY PORTS	2 " "
			" NY PS	2 " "
			" NY PEARL	2 " "
			U.S.N. DRYDOCKS (TERMINAL ISLAND SAN PEDRO CAL)	2 " "
			NAV WARCOL	1 " "
			I.C. BOARD	1 " "
			C.O. CL 7 (RALEIGH)	10 " "
			COM SERV PAC (FLEET MAINT)	1 " "
			COM CRU PAC (MAT'L OFFICER)	1 " "
			COM CRU DIV 1	1 " "
			M.I.	2 " "

Declassified under Executive Order 13526
NND Project Number: NW 47327 (Ship Plans)
By CA Date 2/18/20